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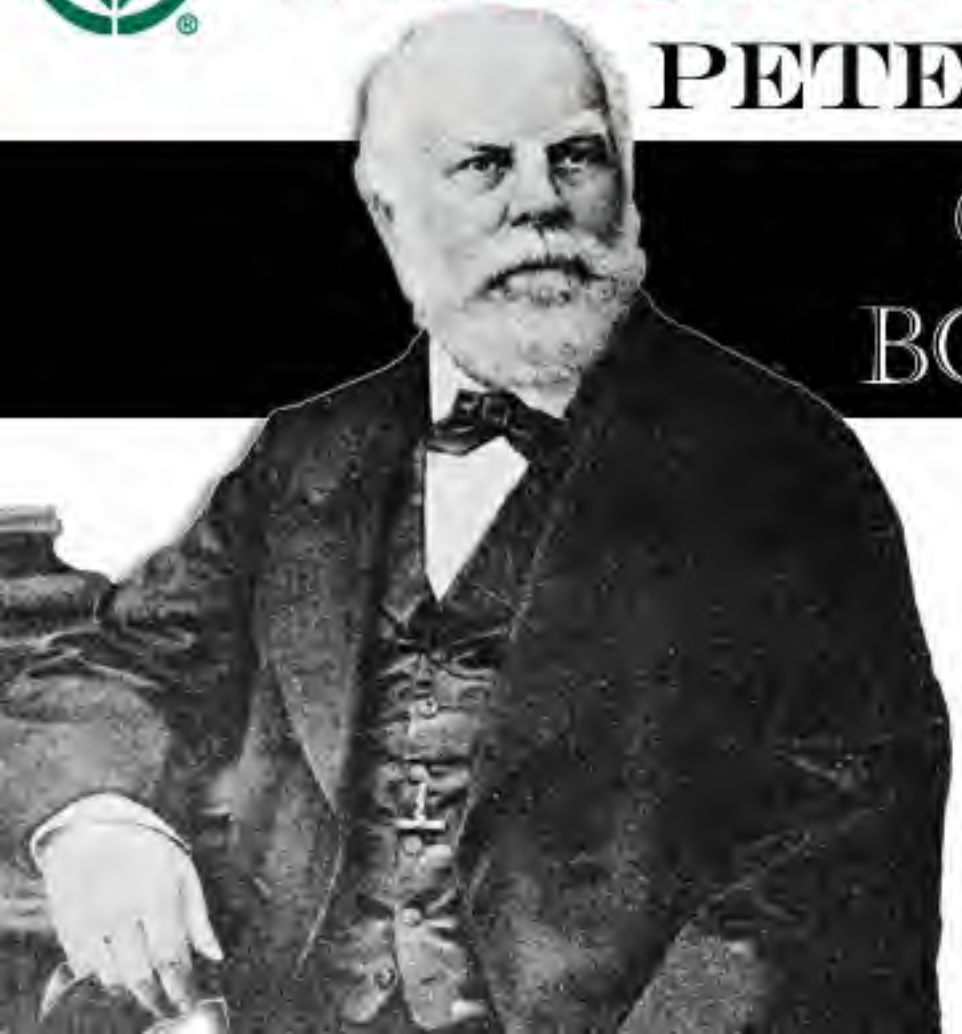
George Engelmann Botanical Notebooks



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Juniperus Cubensis Lay

St Louis May 29 1875

My dear Mr Wright

It is only now and then that I have to write to you — whenever I want a bit of special information. This time it is your Juniperus, No 3187, about which I should like to pump you.

In a revision of the American species of that genus, I came across your specimen in my Herbarium, labelled by Griesbach and copy by, I believe J. Virginiana and find it written that species nov I. Barbadensis, which we might expect with more justice on the Antilles.

I have no doubt, that it is a distinct species, I. Cubensis, and want all the information about it, which you in your notes or in your memory may be able

to take up.

My specimen has young male catkins, but no fruit. Have you not collected any fruit?

Please give me the exact locality and soil, where found.

Is it abundant, does it make forests or grow scattered.

Does it make a large tree, with naked trunk.

How does the bark appear — shreddy like our Cedar, or how.

How is the wood, similar to our red and aromatic, soft, easily splitting, or how. Is it used for any thing particularly?

I send these seeds to Prof. Gray as I do not know your address, and hope to get a good crop from you in the other half of this sheet. Did you see any thing of Dr Darby, who is spending a few weeks in Connecticut? I deliver together in Colorado last fall. Yours truly G. Engelmann

Questions ?

Juniperus Calicola

Locality & geographical distribution ?

soil ?

Abundance ?

size, height ?
diameter ?

nature of bark ? dont know

wood ? "

fruit ? "

uses ? I have an idea that the people spoke of it as a well known wood but I imagine they meant the "cedar" Cedrela odorata

over

Rec'd July 12th Gamboy near Blairsville Union Co Ga
June 24th 1875

Dear Dr Engelmann

I'm B. you see, on another voltage
chase. Now for Jumpers. Below is a note for
Dr Gray, which gives some information which I
could not give here. About north from Guantanamo,
which you can find on your map, probably; &
on the very back-bone of Cuba is the coffee
plantation of Valparaiso where I was hospitably
entertained and where I gathered some good things.
On a very narrow ridge and on the southern
side of it a few feet down, stood the trees, their tops
overlooking the ridge — very damp — dense
growth of other trees and shrubs — There is a vague
notion that I saw it somewhere else, but of this
I am extremely doubtful. It must be very rare.

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"On specimens in Herb. Gray the following —
Valparaiso Oct 5th — a tree 1° + diam.
40° ± high on the margin of Forest
3 trees only"

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North of Guantanamo. Eastern end of Cuba

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Sampson, coordatus
of the high Sierras
is a tree of the 4. rotundus 10
feet in diameter tapering rapidly
the shortest trunk for any
such diameter I
ever half dead

Bowers

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Cystopteris fragilis, var. ?
woodsia obtusa, var. glabra
Dickson " "
Aspid. spinulosum

HERBARIUM OF HARVARD UNIVERSITY,
BOTANIC GARDEN, CAMBRIDGE, MASS.

11 June 187

Mrs. Austin

Placer Co. Cal.

No 4 I call this one
with adult leaves 2.

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Rec'd Febr 17th
Ans same day

H. Bolander.

STATE OF CALIFORNIA.

DEPARTMENT OF PUBLIC INSTRUCTION,

Sacramento, Febr 9 1874.

J. occidentalis on the Sierras
J. osteosperma on the Coast Ranges

Lisbon Sound!

Ich lege mir zum Briefe und zur Landesvertung. Also die Juniperus-Arten. // Juniperus occidentalis: Ein Baum von pyramidenförmigem Wuchse 25-100 Fuss hoch. Der untere Theil des Stammes ist häufig fast dick und nimmt dann rasch auf Etwa ab, hat oft einen 4-7 Fuss Durchmesser bei 25-40 Fuss Höhe. Die Rinde ist besonders auf dem starken Stamme der Fall, wo der Baum [illegible] Fasern abgeschält. Aeste und Zweige dick, fallgrün die Laubmark, Zusammenziehend und Aromatisch. Holz zähe grün Splintschicht. Farbe rothbraun, bläulich-grün gemischt zusammengesetzt, wo der Kern eines Holzes. Verbreitet von Fuss zu Fuss. Diese Baum kommt einen auf beiden Abhängen der Sierras vor; auf dem westlichen Fuss ins Thal auf tiefen Lagen Flussufern bis zu 4000 Fuss Sammler. Lagen Fuss (Bear Valley) Vielen Fuss Wälder den Hügeln, die Flüsse begleitend, besonders zu bewegen. (Yuba River) Dorthin geht er auf ganz auf zerklüfteten Felsen der Berge wo sie aber die Stämme schönsten zu finden, gerade in felsen Lagen Wald er seine ganze Kräfte an Stamm zu

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verwandtschaft und zu Eriogonaceen. Auf den östl. Abhängen
Kommt es uns auf den Mountains zwischen Mono
Pass) Ich glaube mich berechtigt sein zu können,
dass es auf den Küstengebirgen (Coast Ranges) nicht
vorkommt. Hier wird südlich und westlich es auf den
Sierra Nevada Kamm nicht. Sequoia ist da wo
die Central Eisenbahn die Gebirge übersteigt (Bear Valley
South Fork of Yuba River. Cisco südlich bis Mono
Pass.

Californica

2. J. tetragona var osterhoutii: diese Form geht
hier auf dem Monte del Diablo auf einer Höhe
von 3000 Fuss auf trockenen Abhängen. Sie unterscheidet
sich Höhe von 15-25 Fuss und Eibt in trockenen
Gegenden aufgestaltet. Ihr Lebensort ist Küsten Rückhalt
Kiesel, Holz wolfig, Laub matt grün, oft abwechselnd
wolfig, oval von der Größe einer Klarinen Haselnuss.
Ihr Vorkommen ist jedenfalls auf die östlichen trockenen
Abhänge der Küsten gebirge beschränkt. Das ist nicht auf
meiner Reise nach den Minen.

3. J. pachycladea Hook. sie ist nicht in San Diego
Co. häufig in 65 Meilen bis ins Lassen Thal
kommt sie Californien. Sie ist 26 in hohen dicken
Büschen, wie die kleinen Lorbeeren. Blatt und rötlich
grün

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Juniperus tetragona

fruit ×2

Austin Texas May 15 1872

Jan 17 1874

S. Hall
N. 615

immature

trees = 2' × 3'

Arnold Arboretum of Harvard University
Jamaica Plain, Mass.

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R. C. HARRISON,

508 Leffingwell Avenue,

Druggist & Apothecary

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G. F. ENGLEMAN, M.D.,

3003 LOCUST STREET.

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Publ. in DC. Prod. 16.2. p. 490 under this as Junip. occidentalis

Chamaecyparis Bourieri Decaisne Bull Soc France 1. 70

see also Carriere p. 141 who (Carrière (not Decaisne) 1854) plant
is cult'd by Parlatore & he C. Lawsoniana
de la Californie ; elle se distingue par la brièveté de ses feuilles, très
étroitement imbriquées, ovales, acuminées, munies chacune d'une glande
à sa partie moyenne ; ses plus jeunes rameaux, dépourvues de cones,
ressemblent à ceux de l'Arthrotaxis de Lagonides. One of the largest trees known

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Juniperus occidentalis Hook Flor Boreali II. 166

On Juni River Dr Woodhouse, Sitgreaves Rep. 1853 1840

Common on the mountains of New Mexico and on the west as far west as Juni Mountains. Dr Bigelow - Whipp. Rep. 142

Rocky places on the Pecos Bigelow Tour - Boundary Bot. 210

Newberry - Williamson's & Abbot's Astray, Pac R. Rep. VI. 59 t. 10. (1857)

Rocky barren surfaces east of the Sierra Nevada and Cascade Mts from Pitt River to the Columbia; largest 3 feet diam 40' high. Wood white

R. C. HARRISON,

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Juniperus occidentalis var

New Braunfels, F. Lindheimer

– Oct. Dec 1874 :

Our Cedar grows on rocky soil, branching from
the base, making dense thickets, 25–40 feet
high; Bark shreddy – sapwood white, heart
reddish slightly aromatic. — The Cedar of
the plains [J. Virg.] is higher, regular trunk
wood more red and much more aromatic
split easier

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important

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Juniperus occidentalis = Herb Torrey — Jan 1874

1. Juni, D Woodhouse 1851 Sept pol. tetrag. = Colorado plant. berries round — S. Lyon No 3
2. Juni D Bigelow 1853 Nov 24 " " — middle size seed 1
3. Pecos, Texas " " " " more slender branches, larger
4. Nevada, S. Watson No 1122, 1867, " larger oval berry fruit (immature green)
5 Bear valley Calif Boland & Keller 1872 4000 alt " smaller fruit

all these (except 4) are the same as the colorado plant

5 is

Fremont 387. 1846. " " large 2 seeded Calif form of osteosperma
resin leaves

Juniperus pachyphlaea Great Cañon of Rio Grande & Mt Carmel Nov 1852 D Parry
Branches slender 4 angled, leaves acute appressed fruit 4 seeded very large dry hard

New Mexico S. Lyon Exp. Dr Woodhouse Oct 21 1851 berries much smaller.
Leaves purplish 3–4 seeded — heavy ± 3' or more ± 2"
the type! Bark of 1½" thick Comonly 1 thick ± 40 Jun
New Mexico Wright 1890 berries 2 seed, smaller,
leaves ± 2'–3' resinous J. Virginiana ± 46 Gregg!)

Copperas = Bigelow 1851–2 2–3 seeded — hard — leaves 3"
Gregg. 636. Rio del Monte

J. tetragona var osteosperma Fort Whipp. Report p. 141 large hard fruit
San Felipe 1852 Parry et. leaves 3 1 large seed
= J. Cerrosiana Kellogg of which also specimens are here
it is my well known large fruited California
near Juni D Bigelow with very large fruit, 3 leaves
" = Whip No 2 Bot S. Lyon "
Little Colorado 29 Sept 1851 Woodhouse, S. Lyon Exp/ No 2

Dr J Gregg 106 Schott.
E Palmer 315 false white 1868 J. Virgin! fol opp.
D C Sartorius Mexico 6000' alt fl oppos. coll. July
A Fendler 834 (J. occid. fide Gray. leaves ± 2 & nearly 3
" " 835 (J. Virgi fide Gr — — 2
J. Torrey Calif, Foothills of Sierra 1865 (J. osteosperma, fruit. min.
D C Parry Arizona Prescott. 1867 (J. pachyphlaea, 3–4 seed
leaves 2–3
Th. Bridges, California 328 (J. occid.)
" " — 315 Can not find
J. Torrey Calif. Bear mountain 1865 No 500 (J. osteosp. ± 3 stamens
W H Emory 17 Oct 1846 Copperas mts thick Pine like bark
" — " " profusion of berries

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Fremont 526. 1843 Leaves Ultg — or ?

[Fremont ?] Rocky hill sides Red Buttes. July 30 Dirt-colored Granite

Fremont 2d Exp. (2. ortcorpen seeded, scales & fruit all in pairs

636 Gregg Red del Norte

J. Carbonensis ex Hb Buckx

J. Albert's Exp. 1846

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[illegible] house, for Herr Romanus was not to see them. He also paid the postage on his letters and Caroline's, for the heiress never had a penny's worth of pocket-money.

Cassimer continued his frugal and temperate mode of life; he applied himself heart and soul to his labor; had few acquaintances, and went but little into society, so as not to be compelled into unnecessary outlays of money. When his day's work was done he took a long walk, then returned to his room, and read or wrote letters to his "other Me."

Soon one of those Providential occurrences we are too apt to call chance, gave him opportunity for forming a valuable acquaintance. Next to his room at the Inn there lodged a stranger who often walked the floor long after midnight, and Cassimir thought he heard him talking to himself. At the public table he never spoke. He appeared a young man, about Cassimir's own age, with a very pale but pleasing countenance; he had two valets with him, and seemed abundantly supplied with means.

When Cassimer was informed that the stranger was an Englishman, that his name was Duncan, and that he had lived in the city for three whole weeks without caring one straw for the place or its inhabitants—he one day at the table addressed him in the English language. It did Cassimir good to say a few words to one who was a stranger, and who seemed to be in trouble of some sort.

[illegible] Stewart, the Donaldson, and the [illegible] hospitals.

The entrance fees to all these is a mere trifle

and not at all the appearance of an adventurer. But to lend one hundred Louis d'or to an entire stranger, was, to say the least, somewhat thoughtless.

"So be it," said Cassimir to himself. "I do not believe he will deceive me; and if he does it will be the first time in my life, and will never happen again."

That night the Englishman paced up and down his room, and Cassimir heard him weeping. "He is unhappy," thought the listener, "and he surely is not crying over a pecuniary embarrassment; he shall have the money."

Next day at table Duncan was not more communicative, but he was somewhat more inclined to be sociable. When he was silent his face expressed the deepest melancholy; but when animated in conversation he seemed another being. He was a man of intellect and feeling, and Cassimir felt strongly attracted to him. For some days the Briton was guarded in his words, and cold in manner; but Cassimer was tender and attentive, and tried in various ways to divert his mind. At last he succeeded in obtaining his company for a walk. Their hearts approached each other amid the calm beauty of Nature, outside the city limits. Duncan revealed the intellectual stores of his attainment; they discussed the ancient and modern philosophers, the fate of nations, the laws that governed them. Duncan was informed of the position occupied by his companion; and he told briefly of himself, that he had left his native land on

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without pepper. The potato alone is perfectly tasteless to him. Pepper gives it a relish and thus "excites the secretion of the saliva and gastric juice, and therefore facilitates digestion." Why not conclude therefore that pepper is necessary to the nourishment of the system? The truth is that the necessity for using these things depends upon their former use. Persons can live upon food very simply prepared and enjoy their meals to the full; or, they can so use themselves that only highly-seasoned foods and complicated dishes will afford them any satisfaction.

We are convinced that the truest, most enjoyable, most wholesome and the most christian practice is to eat very plain food. We have proven to our satisfaction that salt is productive of disease. It is not a substance having any of the qualities of food, but it has rather the qualities of those poisonous drugs which are used as medicines. It is an irritant. It always produces thirst, and if any considerable quantity of it is dissolved in water and drunk it causes vomiting, like other irritant poisons. Through abandoning its use many persons have been

part of his
ie manner of our own," began
Herr von Bitterblatt with his usual pomposity. "There is a necessity for a thorough survey and consequent arrangement of all the various departments, so that the lands may be rendered valuable and productive. His Highness has appointed a special commission for that purpose. It is a complicated matter; the two Cabinet Counsellors appointed are aged gentlemen, who will not bring the business to a speedy conclusion. I endeavored to induce his Highness to a change of persons, but in vain. Those in command are old and faithful servants of the State, to whom the position is awarded as a signal honor. In order to have some youthful energy to execute, his Highness has appointed my son, very much against my will, as President of the Commission. You are aware, my dear Referendary, that the Elector cannot bear contradiction. My son is somewhat out of health. This matter will draw itself out into indefinite length, and that must not be. I would therefore, my dear Mr. Morn, offer you the place of Secretary to the Commission. You will have a good allowance; and if my son can with your help complete the work to the satis-

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Juniperus Cubensis = Jrg

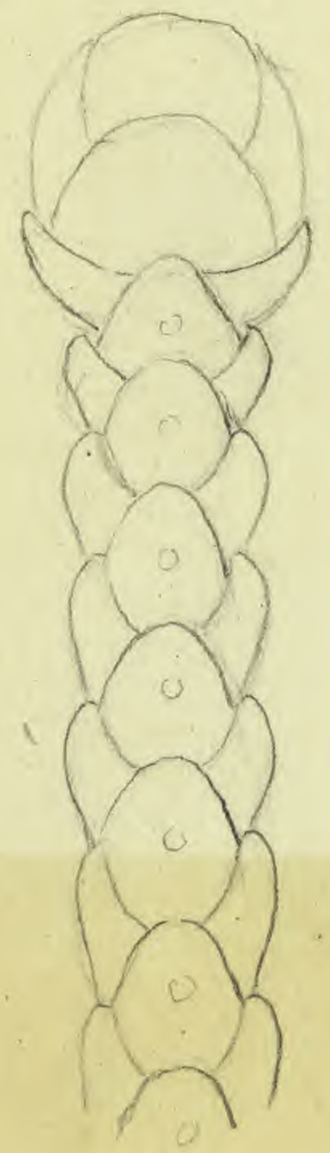
Cuba, Wright 3187

Gc-31 1873

Immature ♂

×10

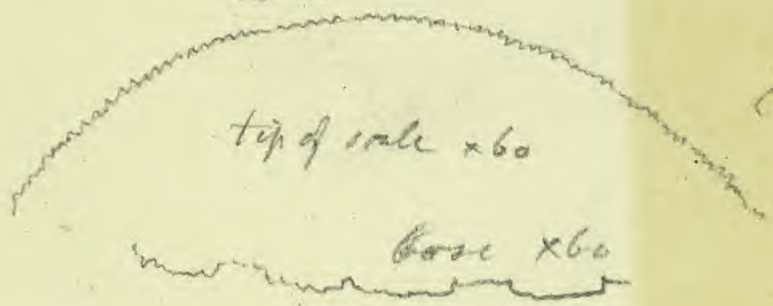
scale ×10



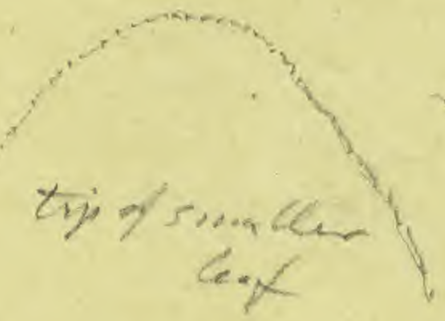
larger branchlet

tip of scale ×60

base ×60



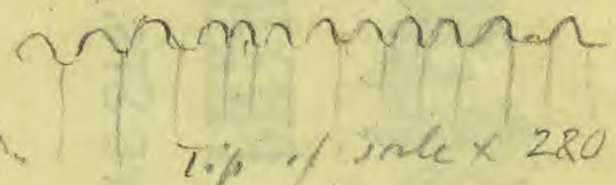
tip of leaf ×60



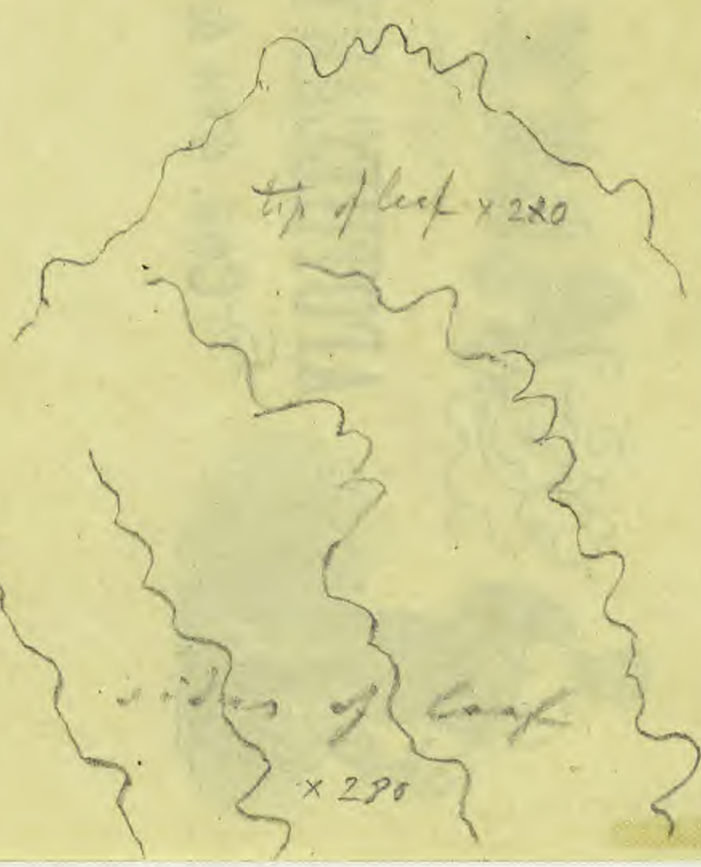
tip of smaller leaf

Pollen ×415

0.022 - 0.023 mm



tip of scale ×280



tip of leaf ×280

×280

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